IKRA BAGWAN

Boston, MA

bagwanikra862@gmail.com │ (857) - 313 - 4097 │ [LinkedIn](https://www.linkedin.com/in/) │ [Github](https://github.com/ikrabagwan)

**SKILLS AND CERTIFICATIONS**

**Certifications:** Google Data Analytics, Lean Six Sigma Foundations

**Databases and Cloud Technologies:** My SQL, Microsoft SQL Server, PostgreSQL, Azure Data Studio, MySQL Workbench, Azure

**Data Integration and ETL Tools:** Talend, Alteryx

**Programming and Data Query Languages:** Python (NumPy, Pandas, Sci-kit learn, Matplotlib), R, SQL, Power Query, DAX

**Data Visualization:** Power BI, Tableau, Advanced Excel

**Core Competencies:** ETL and data pipelines, CI/CD, Git

**IT Infrastructure Management:** SCCM, Windows Server, Active Directory, Group Policy VMware, ITIL

**WORK EXPERIENCE**

**Cognizant Technology Solutions**, India *Sep 2020 – Jul 2022*

***Senior Systems Executive Engineer***

* Orchestrated the ETL process for over 100,000 accounts for the client, which cleaned data, calculated payments due, and loaded data into a CRM platform.
* Boosted query performance by 35% by implementing relational database concepts and SQL, reducing data retrieval times by 25%
* Resolved critical production database issues in 15 minutes on average, ensuring 99.9% system uptime and reliability through on-call support
* Implemented KPI dashboards for tracking $50M+ in revenue collections, providing critical insights to senior management during Covid-19, improving revenue collection rates by 25%

**Vedicsoft Solutions,** India *Jul 2019 – Aug 2020*

***Engineer Trainee***

* Directed IT infrastructures for 10,000+ users over 25+ sites, achieving 15% improved reliability across SCCM versions (2007-2019)
* Developed SQL queries with SCCM, using Power BI to generate reports and dashboards, optimizing resources by 25%
* Resolved end user management with SCCM, resolving 85% of complex issues through strategic upgrades and automation

**Aptus Data Labs Technologies Pvt Ltd,** India *Jan 2019 – Apr 2019*

***Data Analyst Intern***

* Leveraged RapidMiner to build a fraud detection system, attaining a 95% accuracy rate and reducing financial fraud losses by 30%
* Built Microsoft Power BI dashboards, enhancing reporting efficiency by 20% and providing actionable insights

**ACADEMIC PROJECTS**

## Hospital Management Database System *Nov 2022 – Dec 2022*

* Designed and implemented SQL Server relational database to manage patient appointment scheduling
* Developed 14 stored procedures enabling patient registration and appointment scheduling with doctors
* Created views and triggers to enhance data integrity and technical functionality within the database system

## Food Facility Inspection Analysis *Feb 2023 – Mar 2023*

* Enhanced data accuracy by utilizing data profiling, optimizing data types, and reducing errors, achieving a 45% reduction in anomalies across datasets
* Developed and implemented dimensional data modeling in ER Studio, using forward engineering to generate tables in Azure SQL Server and MySQL databases
* Streamlined Alteryx and Talend workflows, reducing food inspection data to 64,000 records from millions
* Leveraged Power BI and Tableau for enhanced data visualization and decision-making insights

## IMDB Movies Analysis *May 2023 – Jul 2023*

* Executed end to end ETL in Talend, merging 500GB of data from IMDb JSON, MySQL, and TSV into Azure SQL
* Constructed a Type 2 Movie Titles Dimension table using SCD2 to ensure historical data accuracy
* Optimized movie trend reports by 35% by using Alteryx to analyze data, addressing outliers and missing values
* Performed SQL queries to align extracted data with Power BI and Tableau visual metrics for the movie industry

## Predicting Boston Housing Prices Using Machine Learning *Oct 2023 – Dec 2023*

* Conducted data cleaning, preprocessing, and exploratory data analysis to prepare the dataset for analysis and visualization
* Accomplished performance analysis by developing Linear Regression, Decision Tree, and Random Forest models for price prediction
* Maximized prediction accuracy by refining Random Forest hyperparameter tuning through GridSearchCV optimization

**EDUCATION**

**Northeastern University,** USA *Sep 2022 – May 2024*

***Master of Science, Computer Software Engineering***

**Mumbai University**, India *Aug 2015 – Jun 2019*

***Bachelor of Engineering, Computer Science***